

# EXHIBIT 6

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**Fourth Edition**

# **IEEE Standard Dictionary of Electrical and Electronics Terms**

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**transadmittance, forward (electron tubes).** The complex quotient of (1) the fundamental component of the short-circuit current induced in the second of any two gaps and (2) the fundamental component of the voltage across the first. 123

**trans- $\mu$ -factor (multibeam electron tubes).** The ratio of (1) the magnitude of an infinitesimal change in the voltage at the control grid of any one beam to (2) the magnitude of an infinitesimal change in the voltage at the control grid of a second beam. The current in the second beam and the voltage of all other electrodes are maintained constant. 125

**transceiver (1)(data transmission).** The combination of radio transmitting and receiving equipment in a common housing, usually for portable or mobile use, and employing common circuit components for both transmitting and receiving. 59

(2)(navigation aid terms). A combination transmitter and receiver in a single housing, with some components being used by both parts. See: transponder. 526

**transconductance.** The real part of the transadmittance. Note: Transconductance is, as most commonly used, the interelectrode transconductance between the control grid and the plate. At low frequencies, transconductance is the slope of the control-grid-to-plate transfer characteristic. See: electron-tube admittances; interelectrode transconductance. 123

**transconductance meter (mutual-conductance meter).** An instrument for indicating the transconductance of a grid-controlled electron tube. See: instrument. 328

**transcribe (electronic computation).** To convert data recorded in a given medium to the medium used by a digital computing machine or vice versa. 235

**transcriber (electronic computation).** Equipment associated with a computing machine for the purpose of transferring input (or output) data from a record of information in a given language to the medium and the language used by a digital computing machine (or from a computing machine to a record of information). 210

**transducer (1)(electrical heating applications to melting furnaces and forehearts in the glass industry).** A device that is actuated by power from one system and supplies power in any other form to a second system. 520

(2) (communication and power transmission). A device by means of which energy can flow from one or more transmission systems or media to one or more other transmission systems or media. Note: The energy transmitted by these systems or media may be of any form (for example, it may be electric, mechanical, or acoustical), and it may be of the same form or different forms in the various input and output systems or media. 111,255,54

(3) (metering). A device to receive energy from one system and supply energy, of either the same or of a different kind, to another system, in such a manner that the desired characteristics of the energy input appear at the output. 212

(4) (thyristor). A device which under the influence of a change in energy level of one form or in one system, produces a specified change in energy level of another form or in another system. 445

**transducer, active.** A transducer whose output waves are dependent upon sources of power, apart from that supplied by any of the actuating waves, which power is controlled by one or more of the waves. Note: The definition of active transducer is a restriction of the more general active network; that is, one in which there is an impressed driving force. See: transducer. 210

**transducer gain (1) (general).** The ratio of the power that the transducer delivers to the specified load under specified operating conditions to the available power of the specified source. Notes: (A) If the input and/or output power consist of more than one component, such as multifrequency signals or noise, then the particular components used and their weighting must be specified. (B) This gain is usually expressed in decibels. See: transducer. 210

(2) (two-port linear transducer). At a specified frequency, the ratio of (A) the actual signal power transferred from the output port of the transducer to its load, to (B) the available signal power from the source driving the transducer. 125

**transducer, ideal (for connecting a specified source to a specified load).** A hypothetical passive transducer that transfers the maximum available power from the source to the load. Note: In linear transducers having only one input and one output, and for which the impedance concept applies, this is equivalent to a transducer that (1) dissipates no energy and (2) when connected to the specified source and load presents to each its conjugate impedance. See: transducer. 210

**transducer, line.** See: line transducer.

**transducer loss.** The ratio of the available power of the specified source to the power that the transducer delivers to the specified load under specified operating conditions. Notes: (1) If the input and/or output power consist of more than one component, such as multifrequency signals or noise, then the particular components used and their weighting must be specified. (2) This loss is usually expressed in decibels. See: transducer. 210

**transducer, passive.** A transducer that has no source of power other than the input signal(s), and whose output signal-power cannot exceed that of the input. Note: The definition of a passive transducer is a restriction of the more general passive network, that is, one containing no impressed driving forces. See: transducer. 210

**transfer (1) (telephone switching systems).** A feature that allows a customer to instruct the switching equipment or operator to transfer his call to another station. 55

(2) (electronic computation). (A) To transmit, or copy, information from one device to another. (B) To jump. (C) The act of transferring. See: jump; transmit. 235

(3) (electro-oped image, another, as by altering the g electrostatog transfer admiral). A trans voltage and t (2) (from the A-terminal n to the ith ter applied betwe reference poi terminations. terminated in

transfer aligns of transfer of: gation system way of: struc measurement measurement transfer charac usually shown electrode and other electrod See: electrode (2) (camera t on the tu current, unde Note: The rel logarithm of tl the logarithm sensitivit; tel transfer check (usually an aut transfer. Note: of the transfer transfer const transfer const transfer contr transfer curr trode required trode. Note: T voltage of the transfer-current transmittance Note: The wo present usage. transfer functio equipment for complex freque dynamic charac system. For an the ratio of the of a given inpu (2) (high-pow